



High Brightness Diffuse Back Light

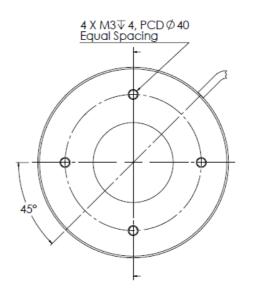


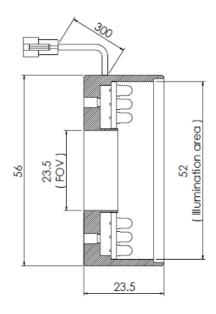
Lighting Picture

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Weight	60g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension, ØxH	Ø56.0x 23.5mm
IP Rating	IP40





Unit in mm





Led Colour Optical Information	RED (SR/SR24)	InfraRed (IR/IR24)	GREEN (G)	BLUE (B)	WHITE (W12/W)				
Wavelength / Color temperature	626nm	875nm	525nm	470nm	xy=(0.31,0.32)				
Illumination (Number of LED)	84/77	84/75	84	84	84				
Illumination Area	Ø52mm								
Led Package	T1 3mm								
Eye Safety (EN 62471:2008)	Exempt Group								
Optimal Working Distance	5-100 mm								

Continuous Mode	Voltage Drive (With resistor)					Current Drive (Without resistor)						
	SR	IR	W12	SR24	IR24	G/B/W	SR	IR	W12	SR24	IR24	G/B/W
	12V ± 2%			24V ± 2%			11VDC	10VDC ± 2%		23VDC	20VDC	22VDC
Supply Voltage To Controller		12V ± 270			24V ± 2%		± 2%			± 2%	± 2%	± 2%
Lighting Forward Voltage, Vf	10.0 V	9.8 V	9.0 V	22.0 V	19.6 V	21.0 V	10.0 V	9.8 V	9.0 V	22.0 V	19.6 V	21.0 V
Max. Current	0.28A	0.30A	0.56A	0.21A	0.13A	0.24A	0.28A	0.30A	0.56A	0.21A	0.13A	0.24A
	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)
Max. Power	3.36 W	3.60 W	6.72 W	5.04 W	3.00 W	5.76 W	3.08 W	3.00 W	5.60 W	4.83 W	2.60 W	5.28 W

Strobe Mode	Voltage Drive						Current Drive					
Strobe Wode	SR	IR	W12	SR24	IR24	G/B/W	SR	IR	W12	SR24	IR24	G/B/W
	Pulsing at 12VDC to 24VDC,			Pulsing at 24VDC to 48VDC,			Pulsing	Pulsing at		Pulsing	Pulsing	Pulsing
Max. Lighting Supply Voltage	Recommended at 18VDC			Recommended at 36VDC			at	10VDC		at	at	at
							11VDC			23VDC	20VDC	22VDC
Max. Current	0.70A	0.75A	1.40A	0.53A	0.33A	0.60A	0.70A	0.75A	1.40A	0.53A	0.33A	0.60A
Max. Current	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)	(MAX)
Max. Trigger Pulse Duration		10 msec										
Duty Cycle		< 10%										

Ordering Part Number	Controller Type	Description					
FLDR-i56A-	Voltago Drivo	With Resistor					
SR/SR24/IR/IR24/W12/G/B/W	Voltage Drive	(Use in both constant voltage/ current power supply)					
FLDR-i56A-	Current Drive	Without Resistor (0 Ohm)					
SR/SR24/IR/IR24/W12/G/B/W-0	Current Drive	(Only use in constant current power supply)					





Connection	(Voltage & Current drive)							
Connector Type (Default):		JST SMR-02	V			JST SMR-03		
	Pin	Signal	Cable Color		Pin	Signal	Cable Color	
	1 LED + Black/White	1	LED +	Black/White				
	2	LED -	Black		2	N.C.		-
					3	LED -	Black	
Cable Length out from lighting:		300 mm						

Additional Information	Details
Life span in continuous mode	20,000 hours
Life span in strobe light mode	
Lighting drop to 50% intensity	50,000 hours
(at 25°C ambient temperature)	
Supply Ripple Voltage	≤ Vs ± 5%
Reverse Battery Protection	YES
Cooling Method	Natural air-cooling
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
ISO 9001:2015	MY11/00845





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